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CLAIM AMENDMENTS

1. (Original) An automated manufacturing method, comprising the steps of:
receiving a description of an object to be fabricated having a desired geometry;
identifying regions in which at least one automated material addition process and at least one
automated material subtraction process should occur to fabricate the object in accordance with the
description;
generating toolpaths associated with the material addition and subtraction processes; and
fabricating the object in accordance with the toolpaths.
2. (Original) The method of claim 1, wherein the regions are layers, volumes, lines or voxels.
3. (Original) The method of claim 1, wherein the automated material subtraction process
includes milling or the use of lasers, knives, hot wires, arc cutters, or plasmas cutters.
4. (Original) The method of claim 1, wherein the automated material addition process includes
solid-state or fusion welding, laser material deposition, metal spraying, or adhesive bonding.
5. - 6. (Canceled)
7. (Original) The method of claim 1, further including the step of soft fixturing multiple parts.
8. (Canceled)
9. (Original) The method of claim 1, further including the step of blending the regions to
eliminate seams that would be generated due to the subtractive process used.
10. (Original) The method of claim 1, further including the step of creating enclosed and
overhanging features using the additive or subtractive manufacturing processes, or a combination

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thereof.

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11. (Original) The method of claim 1, further including the steps of:
identifying changes in the desired geometry;
removing excess material to achieve the desired geometry.

12. - 14. (Canceled)

15. (Original) The method of claim 1, further including the step of generating enclosed cavities within the object during the fabrication thereof.

16. (Canceled)

17. (Original) The method of claim 1, further including the step of repairing an existing mold or other object.

18. (Original) The method of claim 1, wherein a tool path associated with additive processing is based on the nature of the additive process used.

19. (Original) The method of claim 1, further including the step of incorporating negative draft angles using the additive or subtractive processing.

20. (Original) The method of claim 1, further including the steps of:
generating finish paths that are dependent on the flute height of the smallest tool required; and
determining what Z height should be deposited and trimmed prior to finishing based on the flute height of the smallest tool required.

21. (Original) The method of claim 1, wherein:
certain features are deposited with excess stock based on feature geometry; and

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removing material to enhance the deposition process, or speed the build rate of the object.

22. (Original) The method of claim 1, further including the step of generating a conformal support material containment structure.